

09/755002

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Docket No.: 09244/039001
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:
Keith G. Kaan et al.

Patent No.: 7,366,769

Issued: April 29, 2008

For: SYSTEM, METHOD AND COMPUTER
PROGRAM PRODUCT FOR A UNIVERSAL
COMMUNICATION CONNECTOR

Certificate

JUN 02 2008

of Correction

**REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 37 CFR 1.322**

Attention: Certificate of Correction Branch
Commissioner for Patents
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Alexandria, VA 22313-1450

Dear Sir:

Upon reviewing the above-identified patent, Patentee noted typographical errors which should be corrected.

On the Cover Page:

On the Cover Page, section (56) References Cited, Other Documents, "S. Murchie, J.T. Provost T. Burke, G. Karr, S.O. Alam, D. Scheibner, A. Citerne, "Innovations in Global Electronic Data Delivery," "SPE 56686," presented at the 1999 "SPE Annual Technical Conference and Exhibition," Houston, TX, October, 1999." is erroneously missing.

In the Claims:

In Claim 12, column 16, line 29, after the word "and" the word "voiceband" is erroneously missing.

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In Claim 22, column 18, line 14, "wit" should be ~~--with--~~.

In Claim 23, column 18, line 26, after the word "and" the word "voiceband" is erroneously missing.

The errors were not in the application as filed by applicant; accordingly no fee is required.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Also enclosed, as evidence of the error, is a copy of the cover page of the issued patent and a copy of the initialed PTO Form 1449. In addition, enclosed is a copy of the claims as issued and a copy of the Amendments to the Claims. Patentee respectfully solicits the granting of the requested Certificate of Correction.

Applicant believes no fee is due with this request. However, if a fee is due, please charge our Deposit Account No. 50-0591, under Order No. 09244/039001.

Dated: May 28, 2008

Respectfully submitted,

By 

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(12) **United States Patent**
Kaan et al.

(10) **Patent No.:** **US 7,366,769 B2**
(45) **Date of Patent:** **Apr. 29, 2008**

(54) **SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR A UNIVERSAL COMMUNICATION CONNECTOR**

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(73) Assignee: **Schlumberger Technology Corporation**, Houston, TX (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 832 days.

(21) Appl. No.: **09/755,002**

(22) Filed: **Jan. 5, 2001**

(65) **Prior Publication Data**

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Related U.S. Application Data

(60) Provisional application No. 60/237,212, filed on Oct. 2, 2000.

(51) **Int. Cl.**

G06F 15/16 (2006.01)

G06F 15/177 (2006.01)

G06F 15/173 (2006.01)

(52) **U.S. Cl.** **709/218; 709/238; 709/220; 709/249**

(58) **Field of Classification Search** **709/249, 709/222, 220, 218, 238; 370/389, 395.31**
See application file for complete search history.

(56) **References Cited**

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(Continued)

Primary Examiner—William Vaughn

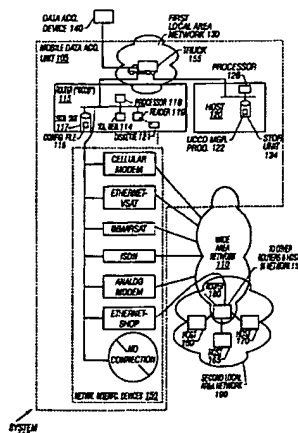
Assistant Examiner—Kristie D Shingles

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(57) **ABSTRACT**

In one embodiment a system for managing communication on a network includes a host connected to a LAN. In a particular embodiment, the host is in a mobile data acquisition unit for a well-logging operation. The host acquires data from a data acquisition device such as a down-hole transmitter is also connected to the LAN. There is also a router connected to the LAN for connecting to the WAN. The system provides for easily configuring and re-configuring the router, to accommodate the variations in parameters for changing from one network interface device to another. In one aspect the router has a configuration file for performing an initial, automatic configuration when the router is booted. The host has a processor and a storage unit with a software program stored in the storage unit. The configuring of the router by the bootable configuration file enables the router to communicate with the host program so that a user can select a network connection type using an interface of the program on the host, and the program can then further automatically configure the router with parameters for the selected connection type. Despite changes in network connections, the hosts on the LAN do not have to change configuration to communicate on the WAN.

23 Claims, 11 Drawing Sheets



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tions in the file 375 or in individual telnet 354 or SNMP 356 commands sent to the router 115 by the host 120. In various contexts, the "configuring instructions" referred to herein may include instructions in a file, individual instructions, or a series of instructions. To reiterate, the embodiments were chosen and described in order to best explain principles of the invention, the practical application, and to enable others of ordinary skill in the art to understand the invention.

Various other embodiments having various modifications may be suited to a particular use contemplated, but may be within the scope of the present invention as claimed.

What is claimed is:

1. A system comprising:

a first network;

a data acquisition device connected to the first network;

a second network;

a mobile data acquisition unit consisting of a router and at least one host wherein the at least one host is configured to communicate with the data acquisition device through the first network, wherein the router is configured to communicate with the at least one host, and wherein the router isolates the at least one host and the data acquisition device from the second network;

a template file comprising an operating system command associated with the router, wherein the operating system command comprises a variable; and

a manager program for executing by a processor of the at least one host to assemble first configuring instructions from the template file for configuring the router, wherein network communication is established among the at least one host, the router and a host on the second network responsive to the configuring of the router, and the configuring does not disrupt communication on the first network between the at least one host and the data acquisition device,

wherein the manager program interprets the variable during assembly of the first configuring instructions, wherein the at least one host has a predetermined configuration, including parameters defining a certain identity, and the configuring includes setting parameters in the router that assign the certain identity to the router, so that the network communication between the at least one host and the router is established by the at least one host recognizing the router identity.

2. The system of claim 1, wherein the configuring includes setting parameters in the router for a network connection between the router and the second network, so that the network communication between the second network host and the router is established by the host on the second network recognizing the router identity via the network connection.

3. The system of claim 1, wherein the router comprises a processor, and wherein execution of the configuring instructions by the router processor automatically performs the router configuring.

4. The system of claim 3, wherein the system comprises second configuring instructions for executing by the router processor upon booting.

5. The system of claim 4, wherein the router comprises a storage unit, and the second configuring instructions include instructions stored in a configuration file on the router storage unit.

6. The system of claim 4, wherein the router comprises a reader for reading a portable storage device, and the second configuring instructions include instructions stored on an external storage device readable by the router's reader.

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7. The system of claim 1, wherein the first configuring instructions include parameters for performing a network login to initialize the network communication on the first network between the router and the at least one host.

8. The system of claim 1, wherein the configuring instructions include configuring the router to substitute a network address of the router in place of a network address of the at least one host for communicating from the at least one host to the host on the second network.

9. The system of claim 1, wherein the configuring includes configuring the router to not send addresses of nodes in the first network to other routers.

10. The system of claim 1, wherein the data acquisition device comprises a down-hole transmitter.

11. The system of claim 1, wherein the mobile data acquisition device comprises a plurality of network interface cards,

wherein each of the plurality of network interface cards is configured to enable communication between the first network and the second network over one of a plurality of connection mediums;

wherein the router is configured to interface with each of the plurality of network interface cards,

wherein the router communicates with the second network using a selected one of the plurality of network interface cards.

12. The system of claim 11, wherein each of the plurality of connection mediums is one selected from a group consisting of: satellite, ISDN, DSL, cable modem, wireless, and modem.

13. A method for managing communication comprising: executing instructions by at least one host to assemble first configuring instructions for a router from a template file, wherein the router and the at least one host are located in a mobile data acquisition unit consisting of the router and the at least one host, wherein the router isolates the at least one host and a data acquisition device from a second network, wherein the data acquisition device, the router and the at least one host are connected to a first network, and the data acquisition device and the at least one host are capable of network communication with one another thereon, and wherein the router is connected to the second network having a host, wherein the template file comprises an operating system command associated with the router and wherein the operating system command comprises a variable;

sending the first configuring instructions by the at least one host to the router; and

executing configuring instructions by the router, including the first configuring instructions, wherein executing the configuring instructions by the router comprises:

configuring the router and establishing communication between the at least one host and the router, wherein the configuring does not disrupt the network communication between the at least one host and the data acquisition device on the first network,

wherein a manager program, for execution by a processor of the at least one host, interprets the variable during assembly of the first configuring instructions,

wherein the at least one host has a predetermined configuration, including parameters defining a certain identity, and wherein the step of executing the configuring instructions by the router comprises:

assigning the certain identity to the router, so that the network communication between the at least one

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host and the router is established by the at least one host recognizing the router identity.

14. The method of claim 13, wherein the step of executing the configuring instructions by the router comprises:

making a network connection between the router and the second network, so that the network communication between a host on the second network and the router is established by the host on the second network recognizing the router identity via the network connection.

15. The method of claim 14, wherein certain ones of the configuring instructions include instructions for executing by the router upon the router booting, and executing the configuring instructions by the router comprises executing the certain ones of the configuring instructions.

16. The method of claim 15, wherein the router has a storage unit, and the certain ones of the configuring instructions include instructions stored in a configuration file on the router storage unit.

17. The method of claim 15, wherein the router has a reader, and the certain ones of the configuring instructions include instructions stored on an external storage device readable by the router's reader.

18. The method of claim 15, wherein the step of executing the configuring instructions by the router comprises:

logging in to the router to initialize the network communication on the first network between the router and the at least one host.

19. The method of claim 18, wherein the step of executing the configuring instructions by the router comprises the:

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configuring the router to substitute a network address of the router in place of a network address of the at least one host for communicating from the at least one host to the host on the second network.

20. The method of claim 19, wherein the step of executing the configuring instructions by the router comprises the: configuring the first router to not send addresses of nodes in the first network to other routers.

21. The method of claim 13, wherein the data acquisition device comprises a down-hole transmitter.

22. The method of claim 13, further comprising: selecting one of a plurality of network interface cards to obtain a selected network interface card; and configuring the router to communicate with the second network based on the selected network interface card, wherein the mobile data acquisition device comprises the plurality of network interface cards,

wherein each of the plurality of network interface cards is configured to enable communication between the first network and the second network over one of a plurality of connection mediums;

wherein the router is configured to interface with each of the plurality of network interface cards.

23. The method of claim 22, wherein each of the plurality of connection mediums is one selected from a group consisting of: satellite, ISDN, DSL, cable modem, wireless, and modem.

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AKIN ALMANZA

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PAGE 03

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	2	of	2
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Complete If Known

Application Number	09/755,002
Filing Date	01/05/2001
First Named Inventor	Kaan
Group Art Unit	2151
Examiner Name	unknown
Attorney Docket Number	59.0040

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Previously Presented) A system comprising:
 - a first network;
 - a data acquisition device connected to the first network;
 - a second network;
 - a mobile data acquisition unit consisting of a router and at least one host, wherein the at least one host is configured to communicate with the data acquisition device through the first network, wherein the router is configured to communicate with the at least one host, and wherein the router isolates the at least one host and the data acquisition device from the second network;
 - a template file comprising an operating system command associated with the router, wherein the operating system command comprises a variable; and
 - a manager program for executing by a processor of the at least one host to assemble first configuring instructions from the template file for configuring the router, wherein network communication is established among the at least one host, the router and a host on the second network responsive to the configuring of the router, and the configuring does not disrupt communication on the first network between the at least one host and the data acquisition device,wherein the manager program interprets the variable during assembly of the first configuring instructions.
2. (Previously Presented) The system of claim 1, wherein the at least one host has a predetermined configuration, including parameters defining a certain identity, and the configuring includes setting parameters in the router that assign the certain identity to the router, so that the network communication between the at least one host and the router is established by the at least one host recognizing the router identity.

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3. (Previously Presented) The system of claim 2, wherein the configuring includes setting parameters in the router for a network connection between the router and the second network, so that the network communication between the second network host and the router is established by the host on the second network recognizing the router identity via the network connection.
4. (Original) The system of claim 1, wherein the router comprises a processor, and wherein execution of the configuring instructions by the router processor automatically performs the router configuring.
5. (Original) The system of claim 4, wherein the system comprises second configuring instructions for executing by the router processor upon booting.
6. (Original) The system of claim 5, wherein the router comprises a storage unit, and the second configuring instructions include instructions stored in a configuration file on the router storage unit.
7. (Original) The system of claim 5, wherein the router comprises a reader for reading a portable storage device, and the second configuring instructions include instructions stored on an external storage device readable by the router's reader.
8. (Cancelled)
9. (Previously Presented) The system of claim 1, wherein the first configuring instructions include parameters for performing a network login to initialize the network communication on the first network between the router and the at least one host.
10. (Previously Presented) The system of claim 1, wherein the configuring instructions include configuring the router to substitute a network address of the router in place of a network address of the at least one host for communicating from the at least one host to the host on the second network.
11. (Previously Presented) The system of claim 1, wherein the configuring includes configuring the router to not send addresses of nodes in the first network to other routers.

12. (Previously Presented) A method for managing communication comprising:

executing instructions by at least one host to assemble first configuring instructions for a router from a template file, wherein the router and the at least one host are located in a mobile data acquisition unit consisting of the router and the at least one host, wherein the router isolates the at least one host and a data acquisition device from a second network, wherein the data acquisition device, the router and the at least one host are connected to a first network, and the data acquisition device and the at least one host are capable of network communication with one another thereon, and wherein the router is connected to the second network having a host, wherein the template file comprises an operating system command associated with the router and wherein the operating system command comprises a variable;

sending the first configuring instructions by the at least one host to the router; and

executing configuring instructions by the router, including the first configuring instructions, wherein executing the configuring instructions by the router comprises:

configuring the router and establishing communication between the at least one host and the router, wherein the configuring does not disrupt the network communication between the at least one host and the data acquisition device on the first network,

wherein a manager program, for execution by a processor of the at least one host, interprets the variable during assembly of the first configuring instructions.

13. (Previously Presented) The method of claim 12, wherein the at least one host has a predetermined configuration, including parameters defining a certain identity, and wherein the step of executing the configuring instructions by the router comprises:

assigning the certain identity to the router, so that the network communication between the at least one host and the router is established by the at least one host recognizing the router identity.

14. (Previously Presented) The method of claim 13, wherein the step of executing the configuring instructions by the router comprises:

making a network connection between the router and the second network, so that the network communication between a host on the second network and the router is established by the host on the second network recognizing the router identity via the network connection.

15. (Previously Presented) The method of claim 14, wherein certain ones of the configuring instructions include instructions for executing by the router upon the router booting, and executing the configuring instructions by the router comprises executing the certain ones of the configuring instructions.

16. (Original) The method of claim 15, wherein the router has a storage unit, and the certain ones of the configuring instructions include instructions stored in a configuration file on the router storage unit.

17. (Original) The method of claim 15, wherein the router has a reader, and the certain ones of the configuring instructions include instructions stored on an external storage device readable by the router's reader.

18. (Previously Presented) The method of claim 15, wherein the step of executing the configuring instructions by the router comprises:

logging in to the router to initialize the network communication on the first network between the router and the at least one host.

19. (Previously Presented) The method of claim 18, wherein the step of executing the configuring instructions by the router comprises the:

configuring the router to substitute a network address of the router in place of a network address of the at least one host for communicating from the at least one host to the host on the second network.

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20. (Previously Presented) The method of claim 19, wherein the step of executing the configuring instructions by the router comprises the:

configuring the first router to not send addresses of nodes in the first network to other routers.

21. – 29. (Cancelled)

30. (Previously Presented) The system of claim 1, wherein the data acquisition device comprises a down-hole transmitter.

31. (Previously Presented) The method of claim 12, wherein the data acquisition device comprises a down-hole transmitter.

32. (Cancelled)

33. (Currently Amended) The system of claim 1,

wherein the mobile data acquisition device comprises a plurality of network interface cards, wherein each of the plurality of network interface cards is configured to enable communication between the first network and the second network over one of a plurality of connection mediums;

wherein the router is configured to interface with each of the plurality of network interface cards,


wherein the router communicates with the second network using a selected one of the plurality of network interface cards.

34. (Currently Amended) The system of claim [[32]] 33, wherein each of the plurality of connection mediums is one selected from a group consisting of: satellite, ISDN, DSL, cable modem, wireless, and voiceband modem.



35. (Currently Amended) The method of claim 12, further comprising:


selecting one of a plurality of network interface cards to obtain a selected network interface card; and

 configuring the router to communicate with the second network based on the selected network interface card,

wherein the mobile data acquisition device comprises the plurality of network interface cards,

wherein each of the plurality of network interface cards is configured to enable communication between the first network and the second network over one of a plurality of connection mediums;

wherein the router is configured to interface with each of the plurality of network interface cards.

 36. (Currently Amended) The method of claim ~~[[34]]~~ 35, wherein each of the plurality of connection mediums is one selected from a group consisting of: satellite, ISDN, DSL, cable modem, wireless, and voiceband modem.

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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,366,769
APPLICATION NO. : 09/755,002
ISSUE DATE : April 29, 2008
INVENTOR(S) : Keith G. Kaan et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Cover Page:

On the Cover Page, section (56) References Cited, Other Documents,
"S. Murchie, J.T. Provost T. Burke, G. Karr, S.O. Alam, D. Scheibner, A. Citerne,
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"SPE Annual Technical Conference and Exhibition," Houston, TX, October, 1999." is
erroneously missing.

In the Claims:

In Claim 12, column 16, line 29, after the word "and" the word "voiceband" is
erroneously missing.

In Claim 22, column 18, line 14, "wit" should be --with--.

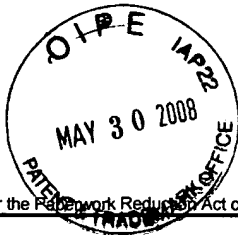
In Claim 23, column 18, line 26, after the word "and" the word "voiceband" is
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PTO/SB/92 (01-08)

Approved for use through 05/31/2008. OMB 0651-0031

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Application No. (if known): 09/755,002

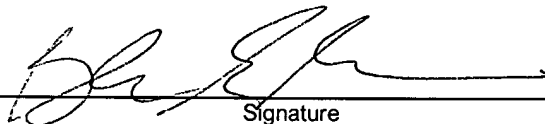
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